

Prepared in accordance with Commission Regulation (EU) 2020/878

Revision Date: 28-06-2023

This document replaces SDS dated: 12-06-2023

FARMAL AF 1100

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product Name: FARMAL AF 1100

starch

Other means of identification:

Chemical family: Modified Starch

UFI Number:

REACH Registration Number: This product is a mixture. The components which are subject to EU

> REACH registration requirements have been registered and their tonnage is covered when the product is imported into the EU by Ingredion legal

entities.

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified use: Personal Care Uses advised against: Not Available

1.3 Details of the supplier of the safety

data sheet:

The relevant Ingredion EMEA Company which invoices for the Product –

please see Section 16

e-mail address of competent person

responsible for the SDS:

Regulatory.emea@ingredion.com

1.4 Emergency telephone number: EMERGENCY TELEPHONE: +1 703-741-5970 / 1-800-424-9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation Not classified as hazardous in accordance with CLP

(EC) No 1272/2008 (CLP):

2.2 Label elements:

No hazard symbols required Hazard pictograms:

Signal word: No Signal Word needed.

Hazard statements: No Hazard Statement needed.

Precautionary statements: No Precautionary Statement needed.



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Supplemental Hazard information

(EU):

No Supplemental Hazard Information available

ADDITIONAL INFORMATION: Not applicable

2.3 Other hazards: This product can produce a nuisance dust which should be maintained

below a time weighted average of 10 mg/m3.

This substance/mixture contains no components considered to be an

endocrine-disrupting substance at levels of 0.1% or higher.

Not expected to be PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Substanc e Name	Concentr ation (% by weight)	CAS No.	EC No. REACH Registrati on No.	Classifica tion according to Regulatio n (EC) No 1272/2008 (CLP)	M-factor	SCL	ATE	Nanofor m Material
This product is not classified as hazardous								

For full text of H-statements, see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

Inhalation: Remove to fresh air. Get medical attention if irritation persists.

Eye Contact: Remove particles by irrigating with eye wash solution or clean water,

holding the eyelids apart. If symptoms develop, obtain medical attention.



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Skin Contact: Wash skin with soap and water. If symptoms develop, obtain medical

attention.

Ingestion: Treat symptomatically and supportively. Get medical attention.

No data available Self protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed:

Nuisance dust with a possibility of dust explosion.

4.3 Indication of any immediate medical attention and special

treatment needed:

No further first aid information is available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Dry Chemical., Carbon dioxide (CO2)., Water Fog., Foam.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the

substance or mixture:

Minimum ignition temperature of dust cloud- approx. 390 C. Minimum explosive concentration- approx. 80 mg/l. Minimum energy to ignite cloud

by electrical spark- approx. 0.10 joules.

Hazardous combustion products: This product does not undergo spontaneous decomposition. Typical

combustion products are carbon monoxide, carbon dioxide, nitrogen and

water.

5.3 Advice for firefighters: No special procedures are required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Non-emergency personnel: Non-emergency personnel should be kept clear of the area.

Emergency responders: Use personal protective equipment as required.

6.2 Environmental precautions: Not available

6.3 Methods and material for Normal precautions for "nuisance dust" should be observed. Avoid containment and cleaning up: prolonged inhalation of dust. Sweep up or vacuum up and place in

suitable container for disposal.

6.4 Reference to other sections: See section 8 for appropriate personal protective equipment. See section

2 and 7 for additional information on hazards and precautionary measures.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling: As with all chemicals, good industrial hygiene practices should be followed

when handling this material.

7.1.1 Recommendations for safe

handling:

Prevent handling of incompatible substance or mixtures. Take measures

to prevent fire as well as aerosol and dust generation.

7.1.2 Advice on general occupational

hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering

Remove contaminated clothing and protective equipment before entering

eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Safe storage conditions: All handling equipment must be properly grounded. Mechanical handling

of the powder on inadequately grounded equipment can result in static electrical discharges. Store in a cool, dry area away from heat, sparks or

fire.

Special Sensitivity: No special sensitivity.

Static Sensitivity: Yes

Other precautions: Use care to minimise dust generation in normal use conditions.

Avoid dispersing the powder in the air. Prevent build-up of powder on

surfaces.

Materials to Avoid/Chemical

Incompatibility:

None known.

7.3 Specific end use(s): Personal Care

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Substance Name	United Kingdom -	United Kingdom -	United Kingdom -
	Workplace	Workplace	Biological
	Exposure Limits	Exposure Limits	Monitoring
	(WELs) - TWAs	(WELs) - STELs	Guidance Values
No data available			

This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m3.

DNEL:None known **PNEC:**None known.

8.2 Exposure controls:

Appropriate engineering controls: General.



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Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear safety glasses with side shields. Protect against dust and

particulates.

Skin protection: Employee must wear appropriate protective gloves to prevent contact with

this substance.

Hand protection: The use of chemically resistant gloves is recommended.

Respiratory protection: Use approved dust mask.

Thermal hazards: Not available

Environmental exposure controls: Avoid runoff into storm sewers and ditches that lead to waterways.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Pure Substance or Mixture: Substance. Physical state: Powder. Colour: white

Odour and odour threshold: Starch odour. :Ha Not available pH in (1%) Solution:

Approximately 6

Melting point/freezing point:

Melting Point: Not available Freezing point: Not available Not available

Boiling point or initial boiling point

and boiling range:

Flash point: Not applicable Not applicable **Evaporation Rate:**

Flammability: No Upper/lower flammability or explosive limits:

Upper flammability or explosive limits: Not available Lower flammability or explosive limits: Not available Not available Vapour pressure: Not available Vapour density:

1.5 Density and/or relative density:

Solubility: Insoluble Partition coefficient n-octanol/water

(log value):

Not available

Not available **Auto-ignition temperature: Decomposition temperature:** Not available



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Viscosity: Not applicable

Volatiles: None

Volatile Organic Chemicals:Not applicableKinematic viscosity:Not availableParticle characteristics:Not applicable

9.2 Other information:

Molecular Weight: > 10000

SECTION 10: Stability and Reactivity

10.1 Reactivity:Not expected to be reactive

10.2 Chemical stability: Stable

10.3 Possibility of hazardous

reactions:

Hazardous polymerization will not occur.

10.4 Conditions to avoid: None known.10.5 Incompatible materials: None known.

10.6 Hazardous decomposition

products:

This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and

water.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Information on possible routes of

exposure:

Ingestion, Inhalation, Skin Contact, Eye Contact

Target Organs Potentially Affected By

Exposure:

None known.

Early onset symptoms related to

exposure:

No data available

Toxic Effects: The toxicological properties of this product have not been fully evaluated.

Use of good industrial hygiene practices is required. Avoid direct contact

with skin or eyes. Do not ingest or inhale.

Exposure levels and health effects:

Acute toxicity:

Ingestion Toxicity: Based on available data, the GHS classification criteria are not met.

Acute toxicity - Dermal: Based on available data, the GHS classification criteria are not met.

Inhalation Toxicity: Based on available data, the GHS classification criteria are not met.



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Skin corrosion/irritation: If symptoms develop, obtain medical attention. Repeated or prolonged

skin contact may result in mild irritation. The toxicological properties of this product have not been fully evaluated. Use of good industrial hygiene practices is required. Avoid direct contact with skin or eyes. Do not ingest

or inhale.

Serious eye damage/irritation: Based on available data, the GHS classification criteria are not met.

Respiratory sensitisation: Based on available data, the GHS classification criteria are not met.

Skin sensitisation:Based on available data, the GHS classification criteria are not met. **Germ cell mutagenicity:**Based on available data, the GHS classification criteria are not met.

Reproductive Toxicity:Based on available data, the GHS classification criteria are not met.

Carcinogenicity:

Based on available data, the GHS classification criteria are not met.

Specific Target Organ Toxicity

Specific Target Organ Toxicity (STOT)

(STOT)-single exposure:

Based on available data, the GHS classification criteria are not met.

Based on available data, the GHS classification criteria are not met.

-repeated exposure:

Aspiration hazard: Based on available data, the GHS classification criteria are not met.

Endocrine disrupting properties: None of the components have endocrine disrupting properties.

Numerical measures of toxicity (such as acute toxicity estimates):

Substance Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
There is no known toxicity data available for the components or the product.			

SECTION 12: Ecological information

12.1 Toxicity: No information available.

Ecological Toxicity Data:

Substance Name	CAS No.	Aquatic LC50 Fish	Aquatic ERC50 Algae	Aquatic EC50 Crustacea
No data available				

12.2 Persistence and degradability: No data available12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: Unknown



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12.5 Results of PBT and vPvB

assessment:

Not expected to be PBT or vPvB.

12.6 Endocrine disrupting properties: None known. **12.7 Other adverse effects:** None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods: Waste disposal should be in accordance with existing Community,

National and local regulations.

Empty container warnings: Empty containers may contain product residue; follow SDS and label

warnings even after they have been emptied.

SECTION 14: Transport Information

14.1 UN number:Not applicable14.2 UN proper shipping name:Not Applicable14.3 Transport hazard class(es):Not Applicable14.4 Packing group:Not ApplicableToxic Inhalation Hazard Zone:No data available

14.5. Environmental hazards: No data available14.7 Maritime transport in bulkNo data available

according to IMO instruments:

14.6 Special precautions for user: Consult IMO regulations before transporting in bulk by ocean.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Substance Name	EINECS	SVHC
No data available		

15.2 Chemical Safety Assessment: No Chemical Safety Assessment has been carried out for this

substance/mixture by the supplier.

SECTION 16: Other information

Revision Date: 06-28-2023

Indication of changes: None Known



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Abbreviations and acronyms: CAS = Chemical Abstract Service

DNEL= Derivative No Effect Level

EC= European Community

EINECS = European Inventory of Existing Chemical Substances

MSHA = Mine Safety Health Administration

NIOSH = National Institute of Occupational Safety & Health

OEL = Occupational Exposure Limit
PBT= Persistent, Bioaccumulative, Toxic
PNEC= Predicted No Effect Concentration

SCOEL= Scientific Committee on Occupational Exposure Limits

TLV = Threshold Limit Value TWA= Time Weighted Average

vPvB= Very Persistent, Very Bioaccumulative

Wt.% = Weight Percent

References and sources of data: Classification according to Regulation (EC) 1272/2008 (CLP), as amended

and Regulation (EC) 1907/2006 (REACH), as amended

Hazard statements: No Hazard Statement needed.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC)

1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Not available	Not available

Precautionary statements: No Precautionary Statement needed.

Products are manufactured in accordance with EU Law, unless expressly agreed to otherwise, in writing, by the relevant Ingredion company referred to below. The information on the safety data sheets is provided for the purposes of a general health and safety assessment by an industrial user (the "User"). Reference should also be made by the User, to any other specific relevant local or national health, safety, environmental or other applicable legislation, including any import or export regulations relevant to the country in which the User operates - the User will need to check this information for itself. The information provided by the relevant Ingredion company referred to below, does not constitute indication of suitability for specific uses, nor is it legal advice given to the User.

This document is issued on behalf of the Ingredion EMEA Company which is the Supplier invoicing for the Product. The respective details of each of the relevant Supplier companies are as follows:

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